FORM PTO-1449
(REV. 7-80)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.: 991.1164

SERIAL NO.: 09/990,239

LIST OF PRIOR ART CITED BY APPLICANT

(Use several sheets if necessary)

APPLICANT(S): Pekka HORTTANAINEN, et al.

FILING DATE: November 21, 2001

GROUP: 3743

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER								DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>SH</i>	AA	2	9	3	7	5	8	8		05/1960	W. Masin et al.	98	38	
	AB	3	0	4	1	0	4	7		09/1962	C. M. Ashley et al.	257	297	
	AC	3	6	6	9	3	4	9		06/1972	Hall, Jr.	236	13	
	AD	3	7	5	2	2	2	6		08/1973	Bullock	165	59	
	AE	4	1	4	8	4	3	5		04/1979	Meyers et al.	236	13	
	AF	4	6	1	6	5	5	9		10/1986	Barlow	98	40.11	
	AG	5	1	8	0	3	3	1		01/1993	Daw et al.	454	187	
	AH	5	4	2	7	1	4	6		06/1995	Bakken et al.	137	625.3	
	AI													
	AJ													
	AK													

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
													YES	NO
18	AL	0	9	2	4	4	7	5	6/99	EPO			X	
	AM	2	2	4	4	8	0	4	12/91	UK			X	
	AN	0	3	7	0	2	4	6	5/90	EPO			Abstract	
	AO	0	8	7	2	6	9	4	10/98	EPO			X	
	AP	3	3	0	3	9	8	7	8/84	Germany			Abstract	

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	AQ														
	AR														
	AS														

EXAMINER

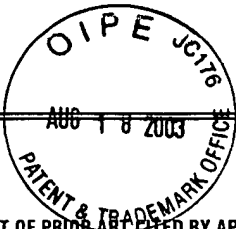
Leonard n Leo

DATE CONSIDERED

12/29/03

TECHNOLOGY CENTER R3700

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449
(REV. 7-80)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.: 991.1164

SERIAL NO.: 09/990,239

LIST OF PRIOR ART CITED BY APPLICANT

(Use several sheets if necessary)

APPLICANT(S): Pekka HORTTANAINEN, et al.

FILING DATE: November 21, 1991

GROUP: 3743

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	BA						
	BB						
	BC						
	BD						
	BE						
	BF						
	BG						
	BH						
	BI						
	BJ						
	BK						

RECEIVED
AUG 20 2003
TECHNOLOGY CENTER R3700

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
11	BL	6 7 6 1 6 8 1	9/81	Australia			X	
1	BM	3 3 2 1 6 1 2	12/84	Germany			Abstract	
	BN	2 3 2 2 9 3 4	9/98	Great Britain			Yes	
	BO	2 1 6 6 8 6 3	5/86	Great Britain			Yes	
	BP	1 5 5 5 5 6 3	11/79	Great Britain			Yes	

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	BQ	
	BR	
	BS	

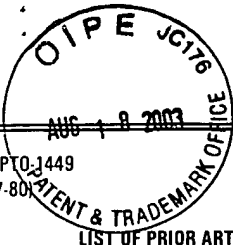
EXAMINER

Leonard A. Leo

DATE CONSIDERED

12/29/03

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449
(REV. 7-80)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.: 991.1164

SERIAL NO.: 09/990,239

LIST OF PRIOR ART CITED BY APPLICANT

(Use several sheets if necessary)

APPLICANT(S): Pekka HORTTANAINEN, et al.

FILING DATE: November 21, 2001

GROUP: 3743

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	CA						
	CB						
	CC						
	CD						
	CE						
	CF						
	CG						
	CH						
	CI						
	CJ						
	CK						

RECEIVED

AUG 20 2003

TECHNOLOGY CENTER R3700

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
<i>DB</i>	CL	0 0 4 5 0 9 4	9/2000	WIPO			X	
<i> </i>	CM	2 3 4 9 6 8 8	11/2000	Great Britain			X	
<i> </i>	CN	2 2 7 1 1 7 5	4/94	Great Britain			X	
<i> </i>	CO	1 1 2 2 5 0 1	8/2001	EPO			X	
<i> </i>	CP	0 9 6 7 4 4 3	12/99	EPO			X	

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	CQ	
	CR	
	CS	

EXAMINER

Leonard A. Leo

DATE CONSIDERED

12/29/03

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449
(REV. 7-80)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.: 991.1164

SERIAL NO.: 09/990,239

LIST OF PRIOR ART CITED BY APPLICANT

(Use several sheets if necessary)

APPLICANT(S): Pekka HORTTANAINEN, et al.

FILING DATE: November 21, 2001

GROUP: 3743

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER								DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>AS</i>	AA	3	9	3	7	1	3	2		02/1976	Bruhlmeier et al.	98	40	
	AB	3	9	8	1	3	2	6		09/1976	Gorchev	137	604	
	AC	4	4	4	8	1	1	1		05/1984	Doherty	98	38	
	AD	5	2	1	8	9	9	8		06/1993	Bakken et al.	137	625.28	
	AE													
	AF													
	AG													
	AH													
	AI													
	AJ													
	AK													

RECEIVED
OCT 17 2003
Group 3700

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER								DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
														YES	NO
<i>AS</i>	AL		9	8	8	3	5	9		5/76	Canada			X	
	AM	9	8	0	9	1	1	5		3/98	WO WIPO			X	
	AN	2	5	5	1	0	7	8		5/77	Germany				X
	AO	0	9	6	7	4	4	4		12/99	EPO			X	
	AP	9	0	0	2	2	9	7		3/90	WO WIPO			X	

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	AQ	
	AR	
	AS	

EXAMINER

Leonard n Lu

DATE CONSIDERED

12/29/03

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449
(REV. 7-80)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.: 991.1164

SERIAL NO.: 09/990,239

LIST OF PRIOR ART CITED BY APPLICANT

(Use several sheets if necessary)

APPLICANT(S): Pekka HORTTANAINEN, et al.

FILING DATE: November 21, 2001

GROUP: 3743

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	BA						
	BB						
	BC						
	BD						
	BE						
	BF						
	BG						
	BH						
	BI						
	BJ						
	BK						

RECEIVED
OCT 17 2003
Group 3700

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
<i>11</i>	BL	1 7 7 8 1 8 8	11/71	Germany				X
<i>1</i>	BM	2 9 6 0 97 54 U 1	2/97	Germany				X
<i>1</i>	BN	1 2 7 3 3 2 9	8/61	France				X
<i>1</i>	BO	2 8 4 1 4 0 9	4/80	Germany				X
<i>1</i>	BP	1 5 7 7 0 3 9	10/80	Great Britain			X	

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	BQ	
	BR	
	BS	

EXAMINER

Donald A. Leo

DATE CONSIDERED

12/29/03

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449
(REV. 7-80)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.: 991.1164

SERIAL NO.: 09/990,239

LIST OF PRIOR ART CITED BY APPLICANT

(Use several sheets if necessary)

APPLICANT(S): Pekka HORTTANAINEN, et al.

FILING DATE: November 21, 2001

GROUP: 3743

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

RECEIVED
OCT 17 2003
Group 3700

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
*	AL	5 8 2 1 1		Finland				X
	AM							
	AN							
	AO							
	AP							

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	AQ	
	AR	
	AS	

EXAMINER

Leonard A. Jo

DATE CONSIDERED

12/29/03

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

* no translation provided or no statement of relevance.